

Study Number: MOG08002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
Time Report Requested: 15:08:46
Lab: RTI

Study Number:

MOG08002B

Study Gender:

Both

PWG Approval Date:

See web page for date of PWG Approval

Version:

v1.0.9

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	F0 Female			
	Treatment Groups (ppm)			
	0	338	1125	3750
Disposition Summary				
Animals Initially In Study	35	35	35	35
Censored				
Early Deaths				
Survivors				
Scheduled Sacrifice, Terminal	35	35	35	35
Number of Animals Examined	28	24	26	27
ALIMENTARY SYSTEM				
LIVER	(28)	(24)	(26)	(27)
MEDIAL LOBE; HEPATODIAPHRAGMATIC NODULE; MILD		2 (8.3%)		
CARDIOVASCULAR SYSTEM				
None				
ENDOCRINE SYSTEM				
None				
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				
OVARIES	(28)	(24)	(26)	(27)
RIGHT; CYST; CLEAR; MINIMAL	1 (3.6%)			
TOTAL; CYST; ALL SEVERITIES	1 (3.6%)			
UTERUS	(28)	(24)	(26)	(27)
LEFT; CONTENTS; RED; MODERATE				1 (3.7%)
TOTAL; CONTENTS; ALL SEVERITIES				1 (3.7%)
BILATERAL; THICKENED				1 (3.7%)
TOTAL; THICKENED				1 (3.7%)

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F0 Female

Treatment Groups (ppm)

0

338

1125

3750

HEMATOLYMPHOID SYSTEM

None

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

None

SPECIAL SENSES SYSTEM

None

URINARY SYSTEM

None

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F1 Male: Subchronic Male

	Treatment Groups (ppm)			
	0	338	1125	3750
Disposition Summary				
Animals Initially In Study	10	10	10	10
Censored				
Early Deaths				
Survivors				
Scheduled Sacrifice, Terminal	10	10	10	10
Number of Animals Examined	10	10	10	10
Total number litters	10	10	10	10
ALIMENTARY SYSTEM				
LIVER	(10)	(10)	(10)	(10)
MEDIAL LOBE; LEFT; HEPATODIAPHRAGMATIC NODULE; ALL SEVERITIES			2 (20.0%) [2]	
MEDIAL LOBE; LEFT; HEPATODIAPHRAGMATIC NODULE; MILD			1 (10.0%) [1]	
MEDIAL LOBE; LEFT; HEPATODIAPHRAGMATIC NODULE; MINIMAL			1 (10.0%) [1]	
MEDIAL LOBE; TOTAL; HEPATODIAPHRAGMATIC NODULE; ALL SEVERITIES			2 (20.0%) [2]	
CARDIOVASCULAR SYSTEM				
None				
ENDOCRINE SYSTEM				
None				
GENERAL BODY SYSTEM				
None				

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F1 Male: Subchronic Male

	Treatment Groups (ppm)			
	0	338	1125	3750
GENITAL SYSTEM				
EPIDIDYMIDES	(10)	(10)	(10)	(10)
BILATERAL; REDUCED IN SIZE; MODERATE				1 (10.0%) [1]
TOTAL; REDUCED IN SIZE; ALL SEVERITIES				1 (10.0%) [1]
PHALLUS	(10)	(10)	(10)	(10)
DEFORMITY; MINIMAL				1 (10.0%) [1]
PROSTATE GLAND	(10)	(10)	(10)	(10)
REDUCED IN SIZE; ALL SEVERITIES	0 **			10 (100.0%) [10] **
REDUCED IN SIZE; MILD				3 (30.0%) [3]
REDUCED IN SIZE; MINIMAL				6 (60.0%) [6]
REDUCED IN SIZE; MODERATE				1 (10.0%) [1]
SEMINAL VESICLES	(10)	(10)	(10)	(10)
BILATERAL; REDUCED IN SIZE; ALL SEVERITIES	0 **			10 (100.0%) [10] **
BILATERAL; REDUCED IN SIZE; MILD				3 (30.0%) [3]
BILATERAL; REDUCED IN SIZE; MINIMAL				6 (60.0%) [6]
BILATERAL; REDUCED IN SIZE; MODERATE				1 (10.0%) [1]
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	0 **			10 (100.0%) [10] **
TESTES	(10)	(10)	(10)	(10)
BILATERAL; REDUCED IN SIZE; MODERATE				1 (10.0%) [1]
TOTAL; REDUCED IN SIZE; ALL SEVERITIES				1 (10.0%) [1]
HEMATOLYMPHOID SYSTEM				
None				
INTEGUMENTARY SYSTEM				
None				
MUSCULOSKELETAL SYSTEM				
None				

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F1 Male: Subchronic Male

Treatment Groups (ppm)

0

338

1125

3750

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

None

SPECIAL SENSES SYSTEM

None

URINARY SYSTEM

None

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F1 Female: Subchronic Females

	Treatment Groups (ppm)			
	0	338	1125	3750
Disposition Summary				
Animals Initially In Study	10	10	10	10
Censored				
Early Deaths				
Survivors				
Scheduled Sacrifice, Terminal	10	10	10	10
Number of Animals Examined	10	10	10	10
Total number litters	10	10	10	10
ALIMENTARY SYSTEM				
LIVER	(10)	(10)	(10)	(10)
QUADRATE LOBE; DEFORMITY; MILD		1 (10.0%) [1]		
MEDIAL LOBE; HEPATODIAPHRAGMATIC NODULE; ALL SEVERITIES	2 (20.0%) [2]			
MEDIAL LOBE; HEPATODIAPHRAGMATIC NODULE; MILD	1 (10.0%) [1]			
MEDIAL LOBE; HEPATODIAPHRAGMATIC NODULE; MINIMAL	1 (10.0%) [1]			
CARDIOVASCULAR SYSTEM				
None				
ENDOCRINE SYSTEM				
None				
GENERAL BODY SYSTEM				
None				

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F1 Female: Subchronic Females

	Treatment Groups (ppm)			
	0	338	1125	3750
GENITAL SYSTEM				
CLITORAL GLANDS	(10)	(10)	(10)	(10)
BILATERAL; DISCOLORATION; GREEN; MINIMAL		1 (10.0%) [1]		
TOTAL; DISCOLORATION; ALL SEVERITIES		1 (10.0%) [1]		
BILATERAL; ENLARGED; MINIMAL		1 (10.0%) [1]		
TOTAL; ENLARGED; ALL SEVERITIES		1 (10.0%) [1]		
OVARIES	(10)	(10)	(10)	(10)
RIGHT; ENLARGED; MODERATE			1 (10.0%) [1]	
TOTAL; ENLARGED; ALL SEVERITIES			1 (10.0%) [1]	
BILATERAL; REDUCED IN SIZE; ALL SEVERITIES	0 **			9 (90.0%) [9] **
BILATERAL; REDUCED IN SIZE; MILD				4 (40.0%) [4]
BILATERAL; REDUCED IN SIZE; MODERATE				5 (50.0%) [5]
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	0 **			9 (90.0%) [9] **
UTERUS	(10)	(10)	(10)	(10)
HORN; LEFT; CYST; CLEAR		1 (10.0%) [1]		
HORN; TOTAL; CYST; ALL SEVERITIES		1 (10.0%) [1]		
BILATERAL; REDUCED IN SIZE; ALL SEVERITIES	0 **			9 (90.0%) [9] **
BILATERAL; REDUCED IN SIZE; MILD				6 (60.0%) [6]
BILATERAL; REDUCED IN SIZE; MODERATE				3 (30.0%) [3]
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	0 **			9 (90.0%) [9] **

HEMATOLYMPHOID SYSTEM

None

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

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F1 Male: Prenatal Males

	Treatment Groups (ppm)			
	0	338	1125	3750
Disposition Summary				
Animals Initially In Study	22	21	22	20
Censored				
Early Deaths				
Survivors				
Scheduled Sacrifice, Terminal	22	21	22	20
Number of Animals Examined	22	21	22	20
Total number litters	22	21	22	20
ALIMENTARY SYSTEM				
INTESTINE, COLON	(22)	(21)	(22)	(20)
NODULE; PALE		1 (4.8%) [1]		
CARDIOVASCULAR SYSTEM				
None				
ENDOCRINE SYSTEM				
None				
GENERAL BODY SYSTEM				
None				

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F1 Male: Prenatal Males

	Treatment Groups (ppm)			
	0	338	1125	3750
GENITAL SYSTEM				
COWPERS GLANDS	(22)	(21)	(22)	(20)
BILATERAL; MISSING	0 *			2 (10.0%) [2]
LEFT; MISSING			1 (4.5%) [1]	
TOTAL; MISSING			1 (4.5%) [1]	2 (10.0%) [2]
BILATERAL; REDUCED IN SIZE; ALL SEVERITIES	0 **			14 (70.0%) [14] **
BILATERAL; REDUCED IN SIZE; MILD				8 (40.0%) [8]
BILATERAL; REDUCED IN SIZE; MINIMAL				4 (20.0%) [4]
BILATERAL; REDUCED IN SIZE; MODERATE				2 (10.0%) [2]
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	0 **			14 (70.0%) [14] **
EPIDIDYMIDES	(22)	(21)	(22)	(20)
BILATERAL; REDUCED IN SIZE; MILD				1 (5.0%) [1]
LEFT; REDUCED IN SIZE; MARKED	1 (4.5%) [1]			
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	1 (4.5%) [1]			1 (5.0%) [1]
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	(22)	(21)	(22)	(20)
REDUCED IN SIZE; ALL SEVERITIES	0 **			18 (90.0%) [18] **
REDUCED IN SIZE; MILD				10 (50.0%) [10]
REDUCED IN SIZE; MINIMAL				6 (30.0%) [6]
REDUCED IN SIZE; MODERATE				2 (10.0%) [2]
PREPUTIAL GLANDS	(22)	(21)	(22)	(20)
BILATERAL; DISCOLORATION; BROWN; MINIMAL	1 (4.5%) [1]			
BILATERAL; DISCOLORATION; GREEN; ALL SEVERITIES	2 (9.1%) [2]	1 (4.8%) [1]		1 (5.0%) [1]
BILATERAL; DISCOLORATION; GREEN; MILD	1 (4.5%) [1]	1 (4.8%) [1]		
BILATERAL; DISCOLORATION; GREEN; MINIMAL	1 (4.5%) [1]			1 (5.0%) [1]
RIGHT; DISCOLORATION; TAN; MINIMAL		1 (4.8%) [1]		
TOTAL; DISCOLORATION; ALL SEVERITIES	3 (13.6%) [3]	2 (9.5%) [2]		1 (5.0%) [1]
BILATERAL; ENLARGED; ALL SEVERITIES	1 (4.5%) [1]	1 (4.8%) [1]		
BILATERAL; ENLARGED; MILD		1 (4.8%) [1]		

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F1 Male: Prenatal Males

	Treatment Groups (ppm)			
	0	338	1125	3750
BILATERAL; ENLARGED; MINIMAL	1 (4.5%) [1]			
LEFT; ENLARGED; MILD	1 (4.5%) [1]			
RIGHT; ENLARGED; MINIMAL		1 (4.8%) [1]		
TOTAL; ENLARGED; ALL SEVERITIES	2 (9.1%) [2]	2 (9.5%) [2]		
LEFT; REDUCED IN SIZE; MILD	1 (4.5%) [1]			
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	1 (4.5%) [1]			
PROSTATE GLAND	(22)	(21)	(22)	(20)
REDUCED IN SIZE; ALL SEVERITIES	0 **			20 (100.0%) [20] **
REDUCED IN SIZE; MILD				14 (70.0%) [14]
REDUCED IN SIZE; MINIMAL				1 (5.0%) [1]
REDUCED IN SIZE; MODERATE				5 (25.0%) [5]
SEMINAL VESICLES	(22)	(21)	(22)	(20)
MISSHAPEN			1 (4.5%) [1]	
BILATERAL; REDUCED IN SIZE; ALL SEVERITIES	0 **			20 (100.0%) [20] **
BILATERAL; REDUCED IN SIZE; MILD				14 (70.0%) [14]
BILATERAL; REDUCED IN SIZE; MINIMAL				1 (5.0%) [1]
BILATERAL; REDUCED IN SIZE; MODERATE				5 (25.0%) [5]
LEFT; REDUCED IN SIZE; MILD			1 (4.5%) [1]	
RIGHT; REDUCED IN SIZE; MODERATE		1 (4.8%) [1]		
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	0 **	1 (4.8%) [1]	1 (4.5%) [1]	20 (100.0%) [20] **
TESTES	(22)	(21)	(22)	(20)
BILATERAL; REDUCED IN SIZE; MILD				1 (5.0%) [1]
LEFT; REDUCED IN SIZE; MARKED	1 (4.5%) [1]			
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	1 (4.5%) [1]			1 (5.0%) [1]
HEMATOLYMPHOID SYSTEM				
None				

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F1 Female: Prenatal Females

	Treatment Groups (ppm)			
	0	338	1125	3750
Disposition Summary				
Animals Initially In Study	22	21	22	20
Censored				
Early Deaths				
Sacrificed, Moribund	1			
Survivors				
Scheduled Sacrifice, Terminal	21	21	22	19
Number of Animals Examined	22	21	22	20
Total number litters	22	21	22	20

ALIMENTARY SYSTEM

None

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

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F1 Female: Prenatal Females

	Treatment Groups (ppm)			
	0	338	1125	3750
GENITAL SYSTEM				
OVARIES	(22)	(21)	(22)	(20)
BILATERAL; REDUCED IN SIZE; ALL SEVERITIES	0 **		1 (4.5%) [1]	17 (85.0%) [17] **
BILATERAL; REDUCED IN SIZE; MILD				12 (60.0%) [12]
BILATERAL; REDUCED IN SIZE; MINIMAL				1 (5.0%) [1]
BILATERAL; REDUCED IN SIZE; MODERATE			1 (4.5%) [1]	4 (20.0%) [4]
LEFT; REDUCED IN SIZE; MILD	0 *			2 (10.0%) [2]
RIGHT; REDUCED IN SIZE; MODERATE	0 *			2 (10.0%) [2]
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	0 **		1 (4.5%) [1]	19 (95.0%) [19] **
UTERUS	(22)	(21)	(22)	(20)
BILATERAL; REDUCED IN SIZE; ALL SEVERITIES	0 **		1 (4.5%) [1]	19 (95.0%) [19] **
BILATERAL; REDUCED IN SIZE; MILD			1 (4.5%) [1]	17 (85.0%) [17]
BILATERAL; REDUCED IN SIZE; MODERATE				2 (10.0%) [2]
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	0 **		1 (4.5%) [1]	19 (95.0%) [19] **
VAGINA	(22)	(21)	(22)	(20)
MISSHAPEN; MILD				1 (5.0%) [1]
HEMATOLYMPHOID SYSTEM				
None				
INTEGUMENTARY SYSTEM				
None				
MUSCULOSKELETAL SYSTEM				
None				
NERVOUS SYSTEM				
None				

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F1 Male: Fertility Males

	Treatment Groups (ppm)			
	0	338	1125	3750
Disposition Summary				
Animals Initially In Study	22	24	21	20
Censored				
Early Deaths				
Found Dead		1		
Survivors				
Scheduled Sacrifice, Terminal	22	23	21	20
Number of Animals Examined	22	24	21	20
Total number litters	22	24	21	20
ALIMENTARY SYSTEM				
LIVER	(22)	(24)	(21)	(20)
ENLARGED; PALE; MODERATE		1 (4.2%) [1]		
MEDIAL LOBE; HEPATODIAPHRAGMATIC NODULE; MINIMAL			1 (4.8%) [1]	
HEPATODIAPHRAGMATIC NODULE		1 (4.2%) [1]		
CARDIOVASCULAR SYSTEM				
None				
ENDOCRINE SYSTEM				
None				
GENERAL BODY SYSTEM				
None				

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F1 Male: Fertility Males

	Treatment Groups (ppm)			
	0	338	1125	3750
GENITAL SYSTEM				
COWPERS GLANDS	(22)	(24)	(21)	(20)
BILATERAL; MISSING	0 *			2 (10.0%) [2]
TOTAL; MISSING	0 *			2 (10.0%) [2]
BILATERAL; REDUCED IN SIZE; ALL SEVERITIES	0 **	1 (4.2%) [1]		14 (70.0%) [14] **
BILATERAL; REDUCED IN SIZE; MARKED		1 (4.2%) [1]		2 (10.0%) [2]
BILATERAL; REDUCED IN SIZE; MILD				3 (15.0%) [3]
BILATERAL; REDUCED IN SIZE; MINIMAL				4 (20.0%) [4]
BILATERAL; REDUCED IN SIZE; MODERATE				5 (25.0%) [5]
LEFT; REDUCED IN SIZE; MARKED		1 (4.2%) [1]		
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	0 **	2 (8.3%) [2]		14 (70.0%) [14] **
DORSAL PROSTATE	(22)	(24)	(21)	(20)
REDUCED IN SIZE; ALL SEVERITIES	0 **			18 (90.0%) [18] **
REDUCED IN SIZE; MARKED				7 (35.0%) [7]
REDUCED IN SIZE; MILD				2 (10.0%) [2]
REDUCED IN SIZE; MINIMAL				1 (5.0%) [1]
REDUCED IN SIZE; MODERATE				8 (40.0%) [8]
EPIDIDYMIDES	(22)	(24)	(21)	(20)
BILATERAL; REDUCED IN SIZE; ALL SEVERITIES	1 (4.5%) [1]			1 (5.0%) [1]
BILATERAL; REDUCED IN SIZE; MARKED	1 (4.5%) [1]			
BILATERAL; REDUCED IN SIZE; MILD				1 (5.0%) [1]
RIGHT; REDUCED IN SIZE; MARKED				1 (5.0%) [1]
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	1 (4.5%) [1]			2 (10.0%) [2]
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	(22)	(24)	(21)	(20)
REDUCED IN SIZE; ALL SEVERITIES	0 **			16 (80.0%) [16] **
REDUCED IN SIZE; MARKED				3 (15.0%) [3]
REDUCED IN SIZE; MILD				3 (15.0%) [3]
REDUCED IN SIZE; MINIMAL				4 (20.0%) [4]

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F1 Male: Fertility Males

	Treatment Groups (ppm)			
	0	338	1125	3750
REDUCED IN SIZE; MODERATE PHALLUS	(22)	(24)	(21)	6 (30.0%) [6] (20)
MISSHAPEN; MODERATE PREPUTIAL GLANDS	(22)	(24)	(21)	1 (5.0%) [1] (20)
RIGHT; DISCOLORATION; TAN; MILD TOTAL; DISCOLORATION; ALL SEVERITIES		1 (4.2%) [1] 1 (4.2%) [1]		
RIGHT; ENLARGED; MILD TOTAL; ENLARGED; ALL SEVERITIES		1 (4.2%) [1] 1 (4.2%) [1]		
BILATERAL; REDUCED IN SIZE; MILD TOTAL; REDUCED IN SIZE; ALL SEVERITIES				1 (5.0%) [1] 1 (5.0%) [1]
SEMINAL VESICLES	(22)	(24)	(21)	(20)
BILATERAL; REDUCED IN SIZE; ALL SEVERITIES	0 **			18 (90.0%) [18] **
BILATERAL; REDUCED IN SIZE; MARKED				8 (40.0%) [8]
BILATERAL; REDUCED IN SIZE; MILD				2 (10.0%) [2]
BILATERAL; REDUCED IN SIZE; MINIMAL				1 (5.0%) [1]
BILATERAL; REDUCED IN SIZE; MODERATE				7 (35.0%) [7]
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	0 **			18 (90.0%) [18] **
TESTES	(22)	(24)	(21)	(20)
RIGHT; DISCOLORATION; YELLOW; MODERATE				1 (5.0%) [1]
TOTAL; DISCOLORATION; ALL SEVERITIES				1 (5.0%) [1]
BILATERAL; REDUCED IN SIZE; ALL SEVERITIES	1 (4.5%) [1]			1 (5.0%) [1]
BILATERAL; REDUCED IN SIZE; MARKED	1 (4.5%) [1]			
BILATERAL; REDUCED IN SIZE; MILD				1 (5.0%) [1]
RIGHT; REDUCED IN SIZE; MARKED				1 (5.0%) [1]
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	1 (4.5%) [1]			2 (10.0%) [2]
RIGHT; UNDESCENDED				1 (5.0%) [1]
TOTAL; UNDESCENDED; ALL SEVERITIES				1 (5.0%) [1]
VENTRAL PROSTATE	(22)	(24)	(21)	(20)

Study Number: MOG08002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
Time Report Requested: 15:08:46
Lab: RTI

F1 Male: Fertility Males

	Treatment Groups (ppm)			
	0	338	1125	3750
REDUCED IN SIZE; ALL SEVERITIES	0 **			18 (90.0%) [18] **
REDUCED IN SIZE; MARKED				8 (40.0%) [8]
REDUCED IN SIZE; MILD				2 (10.0%) [2]
REDUCED IN SIZE; MINIMAL				1 (5.0%) [1]
REDUCED IN SIZE; MODERATE				7 (35.0%) [7]
HEMATOLYMPHOID SYSTEM				
SPLEEN	(22)	(24)	(21)	(20)
DISCOLORATION; MOTTLED; MODERATE		1 (4.2%) [1]		
ENLARGED; MODERATE		1 (4.2%) [1]		
NODULE		1 (4.2%) [1]		
INTEGUMENTARY SYSTEM				
None				
MUSCULOSKELETAL SYSTEM				
None				
NERVOUS SYSTEM				
None				
RESPIRATORY SYSTEM				
None				
SPECIAL SENSES SYSTEM				
None				
URINARY SYSTEM				
None				

Study Number: MOG08002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
Time Report Requested: 15:08:46
Lab: RTI

F1 Female: Fertility Females

	Treatment Groups (ppm)			
	0	338	1125	3750
Disposition Summary				
Animals Initially In Study	22	24	21	20
Censored				
Early Deaths				
Survivors				
Scheduled Sacrifice, Terminal	22	24	21	19
Number of Animals Examined	22	24	21	20
Total number litters	22	24	21	20

ALIMENTARY SYSTEM

None

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

Study Number: MOG08002B
 Test Type: MOG
 Route: Dosing in Feed
 Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
 Test Compound: Bisphenol AF
 CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
 Time Report Requested: 15:08:46
 Lab: RTI

F1 Female: Fertility Females

	Treatment Groups (ppm)			
	0	338	1125	3750
GENITAL SYSTEM				
OVARIES	(22)	(24)	(21)	(20)
BILATERAL; MISSHAPEN				1 (5.0%) [1]
TOTAL; MISSHAPEN				1 (5.0%) [1]
BILATERAL; REDUCED IN SIZE; ALL SEVERITIES	0 **			18 (90.0%) [18] **
BILATERAL; REDUCED IN SIZE; MILD				8 (40.0%) [8]
BILATERAL; REDUCED IN SIZE; MINIMAL				1 (5.0%) [1]
BILATERAL; REDUCED IN SIZE; MODERATE				9 (45.0%) [9]
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	0 **			18 (90.0%) [18] **
OVIDUCTS	(22)	(24)	(21)	(20)
LEFT; CYST; CLEAR; MODERATE	1 (4.5%) [1]			
TOTAL; CYST; ALL SEVERITIES	1 (4.5%) [1]			
BILATERAL; ENLARGED; MODERATE				1 (5.0%) [1]
TOTAL; ENLARGED; ALL SEVERITIES				1 (5.0%) [1]
UTERUS	(22)	(24)	(21)	(20)
HORN; LEFT; CYST; CLEAR; MILD	1 (4.5%) [1]			
HORN; RIGHT; CYST; CLEAR; MINIMAL				1 (5.0%) [1]
HORN; TOTAL; CYST; ALL SEVERITIES	1 (4.5%) [1]			1 (5.0%) [1]
BILATERAL; DILATION; MILD		1 (4.2%) [1]		
TOTAL; DILATION; ALL SEVERITIES		1 (4.2%) [1]		
ENLARGED; MINIMAL				1 (5.0%) [1]
VAGINA	(22)	(24)	(21)	(20)
DEFORMITY; MODERATE				1 (5.0%) [1]
FLUID; MILD				1 (5.0%) [1]
MISSHAPEN; MILD				1 (5.0%) [1]
HEMATOLYMPHOID SYSTEM				
None				

Study Number: MOG08002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
Time Report Requested: 15:08:46
Lab: RTI

F1 Male: F1 Extra Males

	Treatment Groups (ppm)			
	0	338	1125	3750
Disposition Summary				
Animals Initially In Study	21	46	46	40
Censored				
Early Deaths				
Survivors				
Scheduled Sacrifice, Terminal	21	46	46	40
Number of Animals Examined	20	46	46	40
Total number litters	14	18	22	18

ALIMENTARY SYSTEM

None

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

Study Number: MOG08002B
 Test Type: MOG
 Route: Dosing in Feed
 Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
 Test Compound: Bisphenol AF
 CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
 Time Report Requested: 15:08:46
 Lab: RTI

F1 Male: F1 Extra Males

	Treatment Groups (ppm)			
	0	338	1125	3750
GENITAL SYSTEM				
EPIDIDYMIDES	(20)	(46)	(46)	(40)
BILATERAL; REDUCED IN SIZE; ALL SEVERITIES	0 **		8 (17.4%) [5]	17 (42.5%) [8] *
BILATERAL; REDUCED IN SIZE; MILD			6 (13.0%) [4]	13 (32.5%) [7]
BILATERAL; REDUCED IN SIZE; MINIMAL				1 (2.5%) [1]
BILATERAL; REDUCED IN SIZE; MODERATE			2 (4.3%) [1]	3 (7.5%) [2]
LEFT; REDUCED IN SIZE; MILD				1 (2.5%) [1]
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	0 **		8 (17.4%) [5]	18 (45.0%) [8] *
TESTES	(20)	(46)	(46)	(40)
BILATERAL; REDUCED IN SIZE; ALL SEVERITIES	0 **		8 (17.4%) [5]	17 (42.5%) [8] *
BILATERAL; REDUCED IN SIZE; MILD			6 (13.0%) [4]	13 (32.5%) [7]
BILATERAL; REDUCED IN SIZE; MINIMAL				1 (2.5%) [1]
BILATERAL; REDUCED IN SIZE; MODERATE			2 (4.3%) [1]	3 (7.5%) [2]
LEFT; REDUCED IN SIZE; MILD				1 (2.5%) [1]
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	0 **		8 (17.4%) [5]	18 (45.0%) [8] *
LEFT; UNDESCENDED; MILD				2 (5.0%) [2]
LEFT; UNDESCENDED			1 (2.2%) [1]	
RIGHT; UNDESCENDED; MILD				1 (2.5%) [1]
TOTAL; UNDESCENDED; ALL SEVERITIES			1 (2.2%) [1]	3 (7.5%) [2]
HEMATOLYMPHOID SYSTEM				
None				
INTEGUMENTARY SYSTEM				
None				
MUSCULOSKELETAL SYSTEM				
None				

Study Number: MOG08002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
Time Report Requested: 15:08:46
Lab: RTI

F1 Female: F1 Extra Females

	Treatment Groups (ppm)			
	0	338	1125	3750
Disposition Summary				
Animals Initially In Study	45	29	48	17
Censored				
Early Deaths				
Survivors				
Scheduled Sacrifice, Terminal	45	29	48	17
Number of Animals Examined	45	29	48	17
Total number litters	22	16	23	11

ALIMENTARY SYSTEM

None

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

None

HEMATOLYMPHOID SYSTEM

None

INTEGUMENTARY SYSTEM

None

Study Number: MOG08002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
Time Report Requested: 15:08:46
Lab: RTI

F1 Male: PND28 Bio&MGWM Male

	Treatment Groups (ppm)			
	0	338	1125	3750
Disposition Summary				
Animals Initially In Study	12	12	12	12
Censored				
Early Deaths				
Survivors				
Scheduled Sacrifice, Terminal	12	12	12	12
Number of Animals Examined	6	6	8	6
Total number litters	6	6	7	6

ALIMENTARY SYSTEM

None

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

Study Number: MOG08002B
 Test Type: MOG
 Route: Dosing in Feed
 Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
 Test Compound: Bisphenol AF
 CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
 Time Report Requested: 15:08:46
 Lab: RTI

F1 Male: PND28 Bio&MGWM Male

	Treatment Groups (ppm)			
	0	338	1125	3750
GENITAL SYSTEM				
EPIDIDYMIDES	(6)	(6)	(8)	(6)
RIGHT; MISSING				1 (16.7%) [1]
TOTAL; MISSING				1 (16.7%) [1]
BILATERAL; REDUCED IN SIZE; MILD	0 *			2 (33.3%) [2]
LEFT; REDUCED IN SIZE; MODERATE				1 (16.7%) [1]
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	0 **			3 (50.0%) [3]
TESTES	(6)	(6)	(8)	(6)
RIGHT; MISSING				1 (16.7%) [1]
TOTAL; MISSING				1 (16.7%) [1]
BILATERAL; REDUCED IN SIZE; MILD	0 *			2 (33.3%) [2]
LEFT; REDUCED IN SIZE; MODERATE				1 (16.7%) [1]
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	0 **			3 (50.0%) [3]
LEFT; UNDESCENDED; MODERATE				1 (16.7%) [1]
RIGHT; UNDESCENDED; MILD			1 (12.5%) [1]	
TOTAL; UNDESCENDED; ALL SEVERITIES			1 (12.5%) [1]	1 (16.7%) [1]
HEMATOLYMPHOID SYSTEM				
None				
INTEGUMENTARY SYSTEM				
None				
MUSCULOSKELETAL SYSTEM				
None				
NERVOUS SYSTEM				
None				

Study Number: MOG08002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
Time Report Requested: 15:08:46
Lab: RTI

F1 Male: PND28 Bio&MGWM Male

Treatment Groups (ppm)

0

338

1125

3750

RESPIRATORY SYSTEM

None

SPECIAL SENSES SYSTEM

None

URINARY SYSTEM

None

Study Number: MOG08002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
Time Report Requested: 15:08:46
Lab: RTI

F1 Female: PND28 Bio- Female

	Treatment Groups (ppm)			
	0	338	1125	3750
Disposition Summary				
Animals Initially In Study	9	9	9	9
Censored				
Early Deaths				
Survivors				
Scheduled Sacrifice, Terminal	9	9	9	9
Number of Animals Examined	6	6	6	6
Total number litters	6	6	6	6

ALIMENTARY SYSTEM

None

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

None

HEMATOLYMPHOID SYSTEM

None

INTEGUMENTARY SYSTEM

None

Study Number: MOG08002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
Time Report Requested: 15:08:46
Lab: RTI

F1 Female: Bio&MGWM @ VO

	Treatment Groups (ppm)			
	0	338	1125	3750
Disposition Summary				
Animals Initially In Study	12	12	12	12
Censored				
Early Deaths				
Survivors				
Scheduled Sacrifice, Terminal	12	12	12	11
Number of Animals Examined	12	12	12	12
Total number litters	12	11	9	12

ALIMENTARY SYSTEM

None

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

Study Number: MOG08002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
Time Report Requested: 15:08:46
Lab: RTI

F1 Female: Bio&MGWM @ VO

	Treatment Groups (ppm)			
	0	338	1125	3750
GENITAL SYSTEM				
OVARIES	(12)	(12)	(12)	(12)
BILATERAL; MISSHAPEN				1 (8.3%) [1]
TOTAL; MISSHAPEN				1 (8.3%) [1]
OVIDUCTS	(12)	(12)	(12)	(12)
BILATERAL; ENLARGED; MODERATE				1 (8.3%) [1]
TOTAL; ENLARGED; ALL SEVERITIES				1 (8.3%) [1]
UTERUS	(12)	(12)	(12)	(12)
ENLARGED; MODERATE				1 (8.3%) [1]
FLUID				1 (8.3%) [1]
VAGINA	(12)	(12)	(12)	(12)
DEFORMITY; MODERATE				1 (8.3%) [1]
FLUID				1 (8.3%) [1]
HEMATOLYMPHOID SYSTEM				
None				
INTEGUMENTARY SYSTEM				
None				
MUSCULOSKELETAL SYSTEM				
None				
NERVOUS SYSTEM				
None				
RESPIRATORY SYSTEM				
None				
SPECIAL SENSES SYSTEM				
None				

Study Number: MOG08002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
Time Report Requested: 15:08:46
Lab: RTI

F1 Female: Bio&MGWM @ VO

Treatment Groups (ppm)

0	338	1125	3750
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URINARY SYSTEM

None

Study Number: MOG08002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
Time Report Requested: 15:08:46
Lab: RTI

F2 Male

Treatment Groups (ppm)

0

338

1125

Disposition Summary

Animals Initially In Study

52

70

27

Censored

Early Deaths

Survivors

Scheduled Sacrifice, Terminal

52

70

27

Number of Animals Examined

52

70

27

Total number litters

17

19

7

ALIMENTARY SYSTEM

LIVER

(52)

(70)

(27)

MEDIAL LOBE; HEPATODIAPHRAGMATIC NODULE; MINIMAL

1 (1.4%) [1]

1 (3.7%) [1]

MEDIAL LOBE; NODULE; FIRM

1 (1.4%) [1]

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

Study Number: MOG08002B
 Test Type: MOG
 Route: Dosing in Feed
 Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
 Test Compound: Bisphenol AF
 CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
 Time Report Requested: 15:08:46
 Lab: RTI

F2 Male

Treatment Groups (ppm)

	0	338	1125
GENITAL SYSTEM			
COWPERS GLANDS	(52)	(70)	(27)
RIGHT; MISSING	1 (1.9%) [1]	1 (1.4%) [1]	
TOTAL; MISSING	1 (1.9%) [1]	1 (1.4%) [1]	
BILATERAL; REDUCED IN SIZE; ALL SEVERITIES	1 (1.9%) [1]		3 (11.1%) [3]
BILATERAL; REDUCED IN SIZE; MILD	1 (1.9%) [1]		1 (3.7%) [1]
BILATERAL; REDUCED IN SIZE; MINIMAL			2 (7.4%) [2]
LEFT; REDUCED IN SIZE; MODERATE	1 (1.9%) [1]		
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	2 (3.8%) [2]		3 (11.1%) [3]
DORSAL PROSTATE	(52)	(70)	(27)
REDUCED IN SIZE; ALL SEVERITIES	1 (1.9%) [1]		4 (14.8%) [3]
REDUCED IN SIZE; MILD	1 (1.9%) [1]		3 (11.1%) [3]
REDUCED IN SIZE; MINIMAL			1 (3.7%) [1]
EPIDIDYMIDES	(52)	(70)	(27)
LEFT; ENLARGED; MILD	1 (1.9%) [1]		
TOTAL; ENLARGED; ALL SEVERITIES	1 (1.9%) [1]		
BILATERAL; REDUCED IN SIZE; MILD	1 (1.9%) [1]		
LEFT; REDUCED IN SIZE; MINIMAL		1 (1.4%) [1]	
RIGHT; REDUCED IN SIZE; MODERATE	1 (1.9%) [1]		
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	2 (3.8%) [2]	1 (1.4%) [1]	
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	(52)	(70)	(27)
REDUCED IN SIZE; ALL SEVERITIES			2 (7.4%) [2]
REDUCED IN SIZE; MILD			1 (3.7%) [1]
REDUCED IN SIZE; MINIMAL			1 (3.7%) [1]
PREPUTIAL GLANDS	(52)	(70)	(27)
BILATERAL; REDUCED IN SIZE; MINIMAL			1 (3.7%) [1]
TOTAL; REDUCED IN SIZE; ALL SEVERITIES			1 (3.7%) [1]
SEMINAL VESICLES	(52)	(70)	(27)

Study Number: MOG08002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
Time Report Requested: 15:08:46
Lab: RTI

F2 Male

Treatment Groups (ppm)

	0	338	1125
BILATERAL; REDUCED IN SIZE; ALL SEVERITIES	0 *		5 (18.5%) [3]
BILATERAL; REDUCED IN SIZE; MILD			2 (7.4%) [2]
BILATERAL; REDUCED IN SIZE; MINIMAL			3 (11.1%) [2]
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	0 *		5 (18.5%) [3]
TESTES	(52)	(70)	(27)
LEFT; ENLARGED; MILD	1 (1.9%) [1]		
TOTAL; ENLARGED; ALL SEVERITIES	1 (1.9%) [1]		
LEFT; MISSHAPEN; MILD		1 (1.4%) [1]	
RIGHT; MISSHAPEN; MODERATE	1 (1.9%) [1]		
TOTAL; MISSHAPEN; ALL SEVERITIES	1 (1.9%) [1]	1 (1.4%) [1]	
BILATERAL; REDUCED IN SIZE; MILD	1 (1.9%) [1]	1 (1.4%) [1]	
RIGHT; REDUCED IN SIZE; MODERATE	1 (1.9%) [1]		
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	2 (3.8%) [2]	1 (1.4%) [1]	
VENTRAL PROSTATE	(52)	(70)	(27)
REDUCED IN SIZE; ALL SEVERITIES	1 (1.9%) [1] *		5 (18.5%) [3]
REDUCED IN SIZE; MILD	1 (1.9%) [1]		3 (11.1%) [3]
REDUCED IN SIZE; MINIMAL			2 (7.4%) [2]

HEMATOLYMPHOID SYSTEM

None

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

NERVOUS SYSTEM

None

Study Number: MOG08002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
Time Report Requested: 15:08:46
Lab: RTI

F2 Male

Treatment Groups (ppm)

0

338

1125

RESPIRATORY SYSTEM

None

SPECIAL SENSES SYSTEM

EYES

(52)

(70)

(27)

RIGHT; REDUCED IN SIZE; MILD

1 (1.4%) [1]

TOTAL; REDUCED IN SIZE; ALL SEVERITIES

1 (1.4%) [1]

URINARY SYSTEM

KIDNEYS

(52)

(70)

(27)

LEFT; MASS; PALE

1 (1.4%) [1]

TOTAL; MASS

1 (1.4%) [1]

Study Number: MOG08002B
 Test Type: MOG
 Route: Dosing in Feed
 Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
 Test Compound: Bisphenol AF
 CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
 Time Report Requested: 15:08:46
 Lab: RTI

F2 Female

Treatment Groups (ppm)

	0	338	1125
Disposition Summary			
Animals Initially In Study	78	77	20
Censored			
Early Deaths			
Survivors			
Scheduled Sacrifice, Terminal	78	77	20
Number of Animals Examined	78	77	20
Total number litters	18	19	7

ALIMENTARY SYSTEM

LIVER	(78)	(77)	(20)
MEDIAL LOBE; HEPATODIAPHRAGMATIC NODULE; ALL SEVERITIES	4 (5.1%) [3]		
MEDIAL LOBE; HEPATODIAPHRAGMATIC NODULE; MILD	2 (2.6%) [2]		
MEDIAL LOBE; HEPATODIAPHRAGMATIC NODULE; MINIMAL	1 (1.3%) [1]		
MEDIAL LOBE; HEPATODIAPHRAGMATIC NODULE; MODERATE	1 (1.3%) [1]		

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

OVARIES	(78)	(77)	(20)
LEFT; REDUCED IN SIZE; MODERATE	1 (1.3%) [1]		
RIGHT; REDUCED IN SIZE; MILD	1 (1.3%) [1]		
TOTAL; REDUCED IN SIZE; ALL SEVERITIES	2 (2.6%) [1]		

Study Number: MOG08002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
Time Report Requested: 15:08:46
Lab: RTI

F2 Female

Treatment Groups (ppm)

0

338

1125

HEMATOLYMPHOID SYSTEM

None

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

None

SPECIAL SENSES SYSTEM

None

URINARY SYSTEM

KIDNEYS

(78)

(77)

(20)

RIGHT; PELVIS; MASS; PALE

1 (1.3%) [1]

TOTAL; PELVIS; MASS

1 (1.3%) [1]

Study Number: MOG08002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA46R: Summary of Gross Pathology with Litter Incidence
Test Compound: Bisphenol AF
CAS Number: 1478-61-1

Date Report Requested: 11/05/2020
Time Report Requested: 15:08:46
Lab: RTI

LEGEND

Censored animals are scheduled for sacrifice prior to the end of the study.

Number of animals examined for each tissue shown in parentheses. If none of the animals examined have the specific lesion then there is a blank for that dose group for that specific lesion. The exception to this is if statistical significance is found for a lesion and the control group has no animals with the lesion then a 0 is included for the control group on the table for that lesion.

Number (percent) of animals affected given for each observation

Number of litters with observations shown in square brackets for F1 and F2 animals. F1 litter incidence based on the number of F0 dams; F2 litter incidence based on number of F1 dams.

All trend and pairwise p-values are reported as one-sided.

Non-pregnant females from the F0 and F1 generations are included in the analysis.

Statistical analysis performed by Cochran-Armitage (trend) and Fisher Exact (pairwise) tests for the F0 animals and all F1 animals except for the F1 Extras.

Statistical analysis performed by Cochran-Armitage test with a Rao-Scott modification for the random effect due to litter for the F1 Extra animals and the F2 animals.

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

The Selection of F1 Male: PND28 Bio & MGWM Male had 12 animals per group, but only 6 had gross pathology evaluations as per protocol. The number of histopathology evaluations was done only on gross lesions found on the subset of 6 animals per group in this selection.

If the same lesion is shown with multiple severities, trend and pairwise statistical comparisons are performed only against the ALL SEVERITIES combination.

The F1 3750 ppm animals were unable to produce a F2 generation, hence this group was not evaluated.

**** END OF REPORT ****